



*United States Army Sergeants Major
Academy*

GRAPHICS AND OVERLAYS

WELCOME TO GRAPHICS AND OVERLAYS





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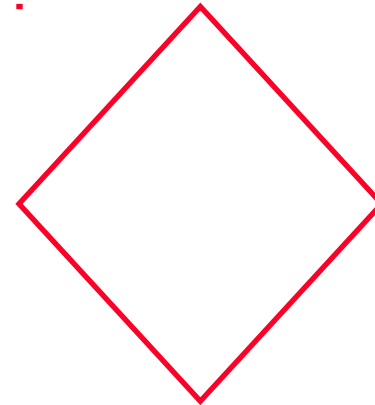
GRAPHICS COLORS

FRIENDLY UNITS



FRIENDLY MANEUVER
GRAPHICS
ARE IN BLACK

ENEMY UNITS



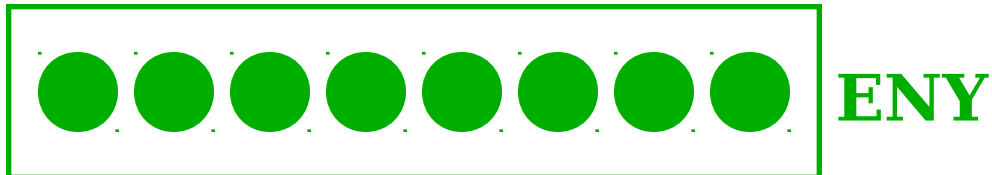
ENEMY MANEUVER
GRAPHICS
ARE IN RED



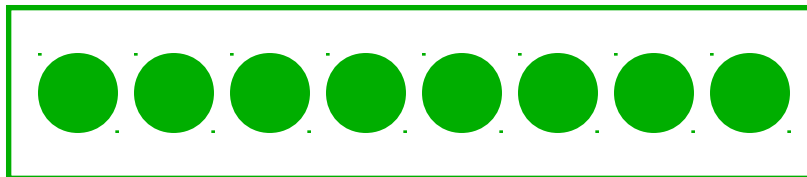


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GRAPHICS COLORS (CONT)



ENEMY OBSTACLES ARE GREEN AND REQUIRE
THE TERM “**ENY**” TO IDENTIFY THE OBSTACLE
AS ENEMY



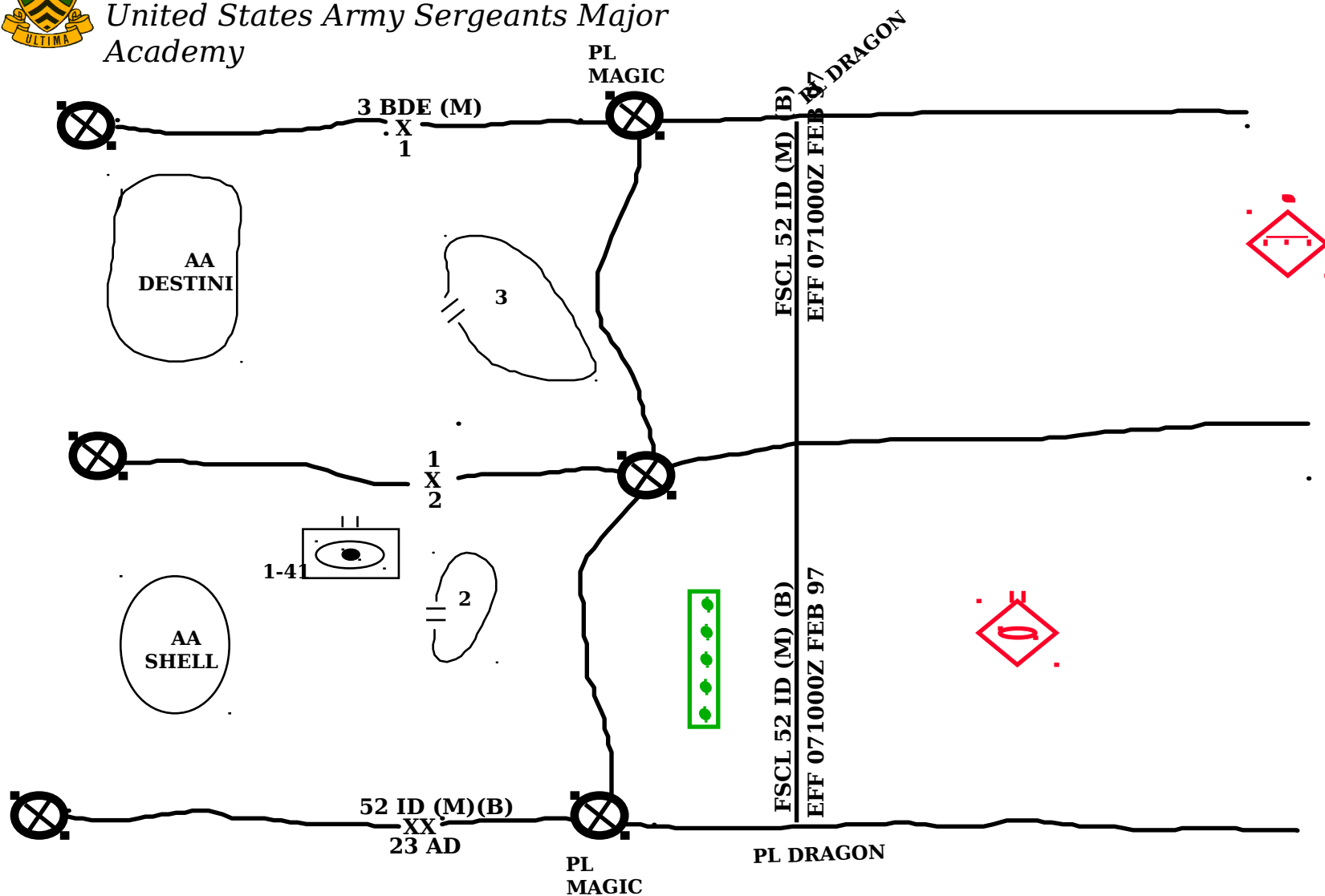
FRIENDLY OBSTACLES ARE GREEN





LABELING RULES

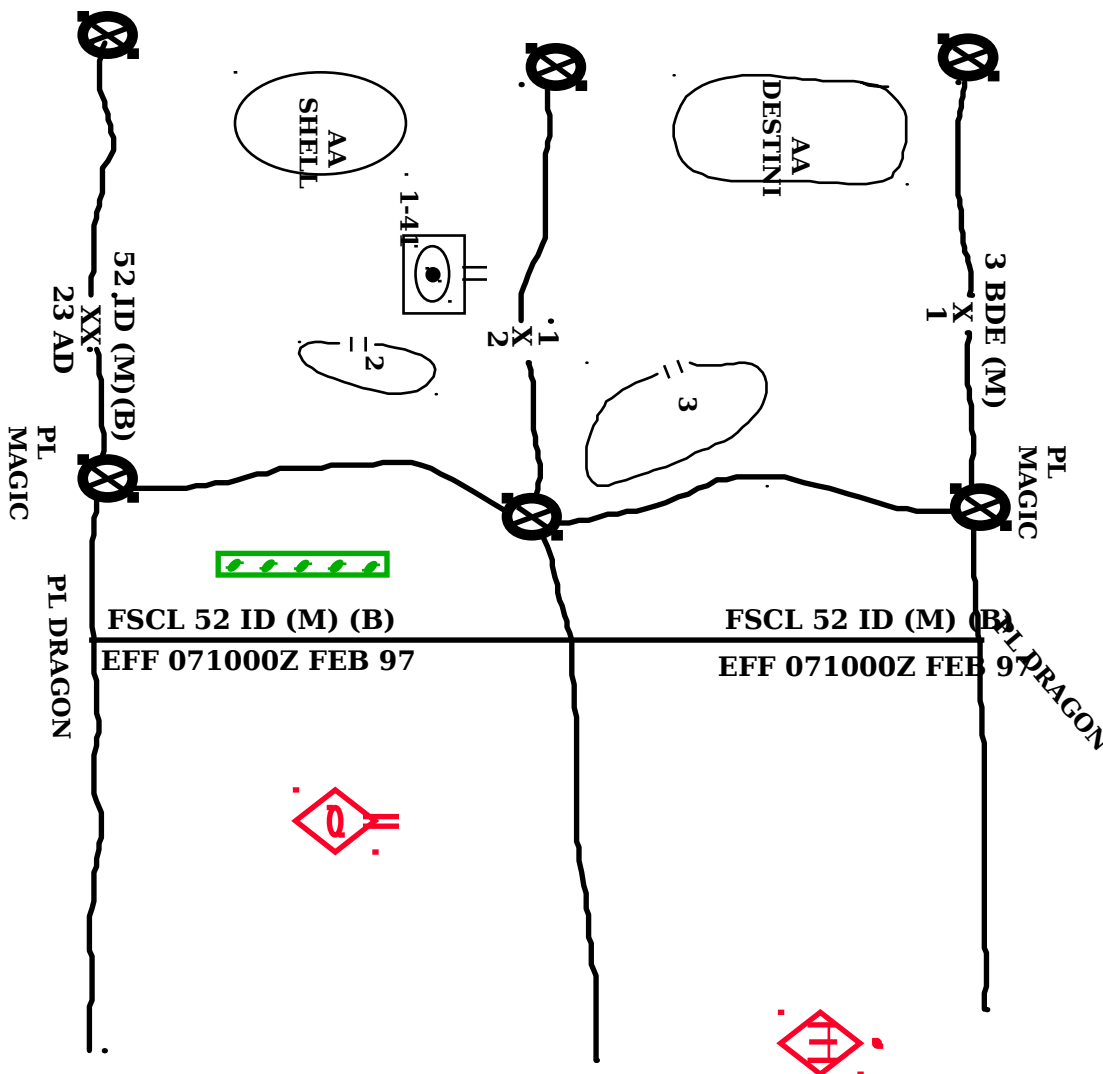
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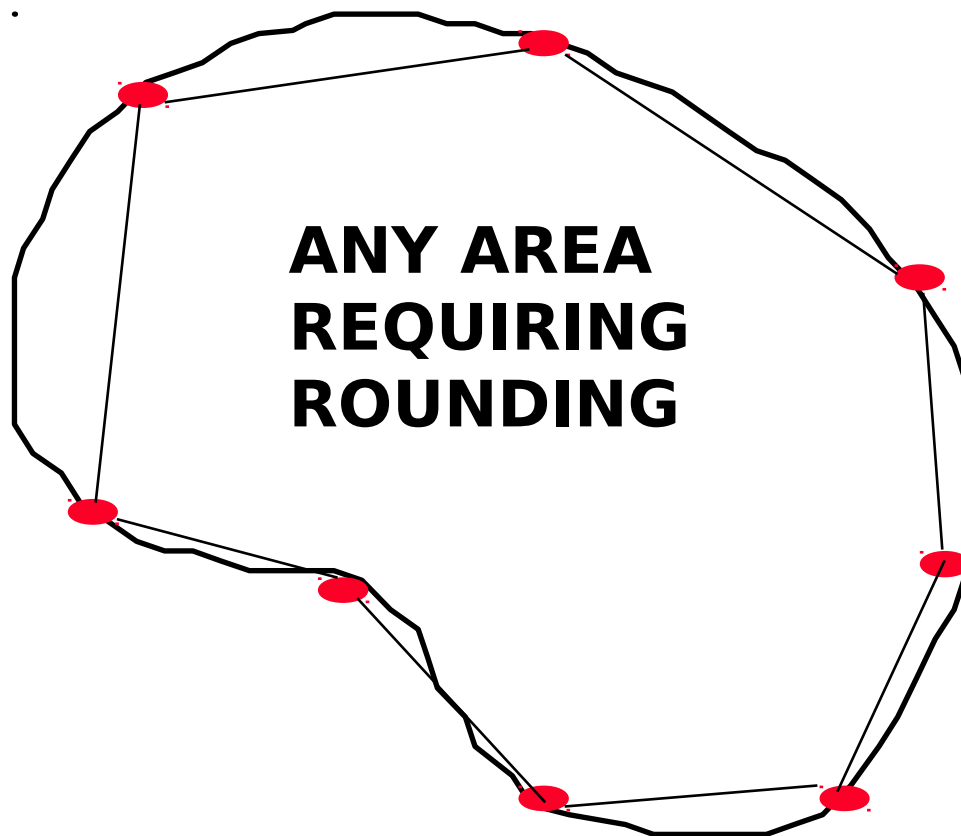
LABELING RULES (CONT)





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ROUNDING

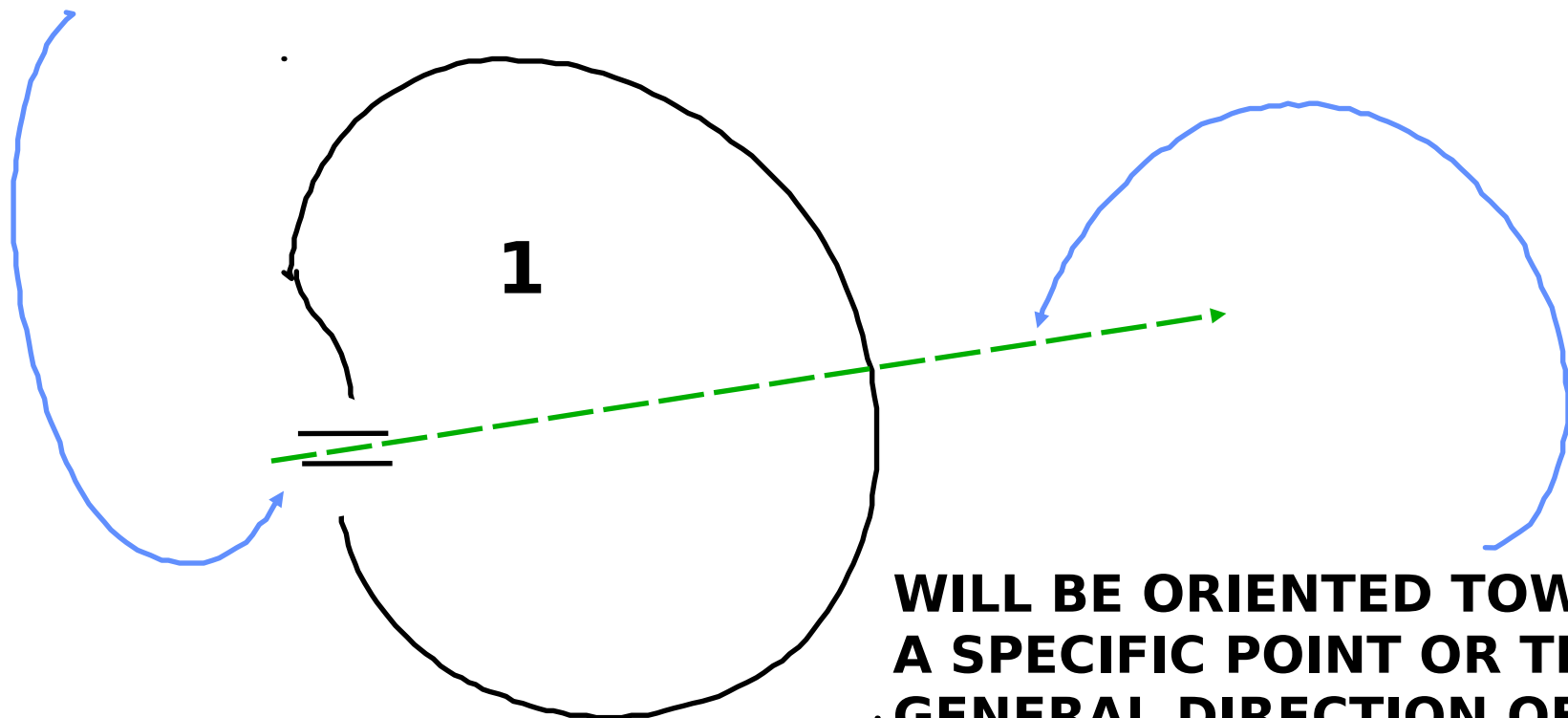




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BATTLE POSITION

**WILL CONTAIN FIELD BRAVO
TO INDICATE SIZE OF POSITION**



**WILL BE ORIENTED TOWAR
A SPECIFIC POINT OR THE
GENERAL DIRECTION OF
THE ENEMY**





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AREA POSITION (TOWN)



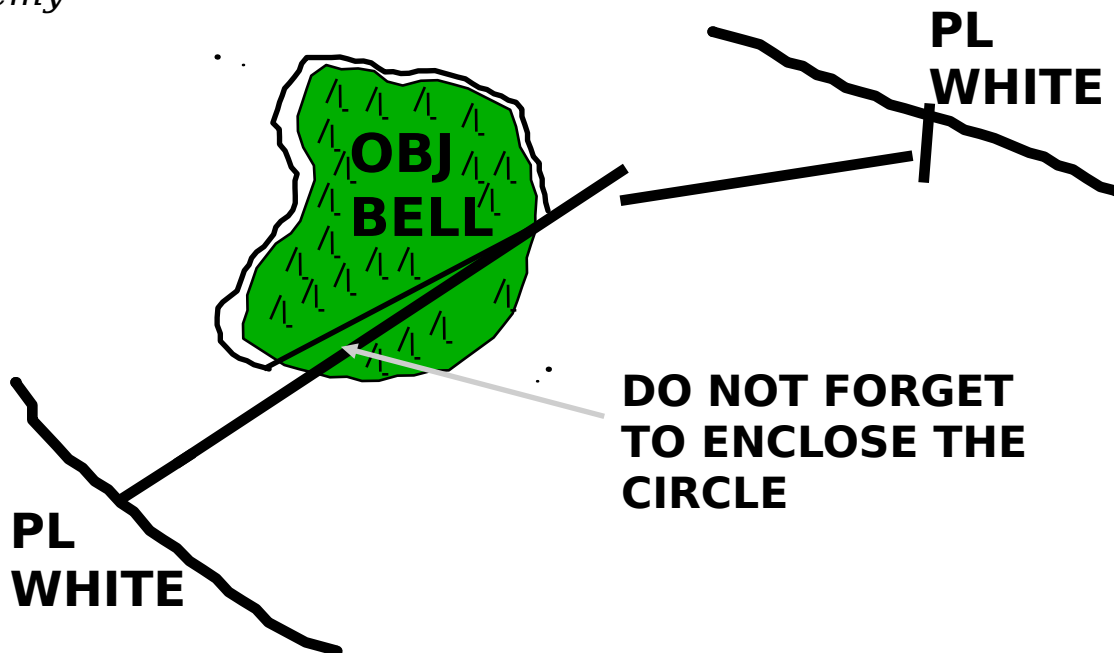
**TO MAKE A CITY/ TOWN A POSITION,
ENCIRCLE THE ENTIRE CITY/ TOWN.
LEAVE OUT THOSE BUILDINGS THAT
APPEAR TO BE OUTSIDE THE PRIMARY
CITY/ TOWN BOUNDARIES. AGAIN, DO NOT
CROSS PHASE LINES OR BOUNDARIES.**





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AREA POSITION (WOODS)



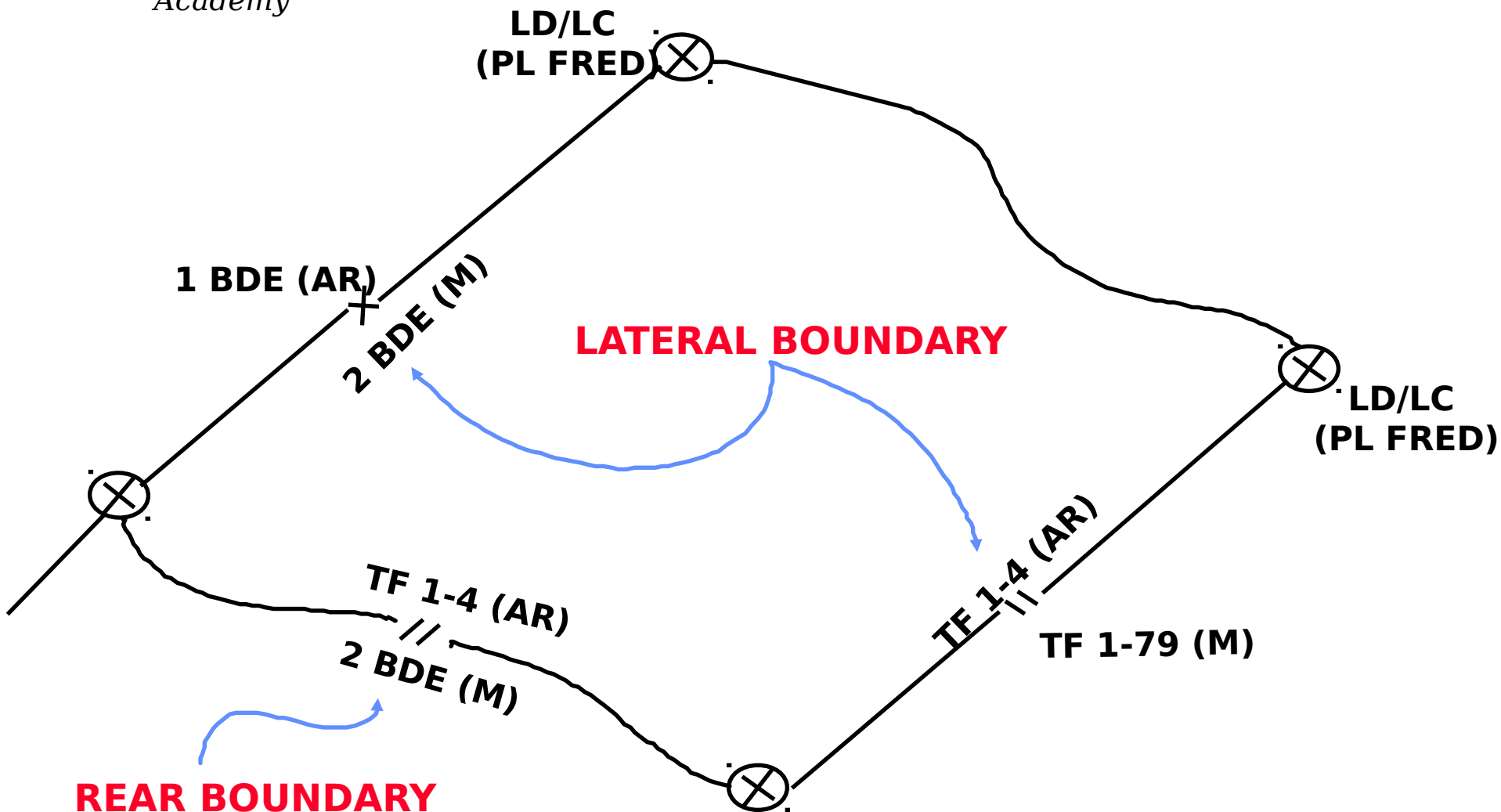
TO MAKE A WOODED AREA A POSITION, ENCIRCLE THE ENTIRE GREEN AREA THAT REPRESENTS THE WOODED AREA WHILE NOT CROSSING OR TOUCHING THE PHASE LINE.





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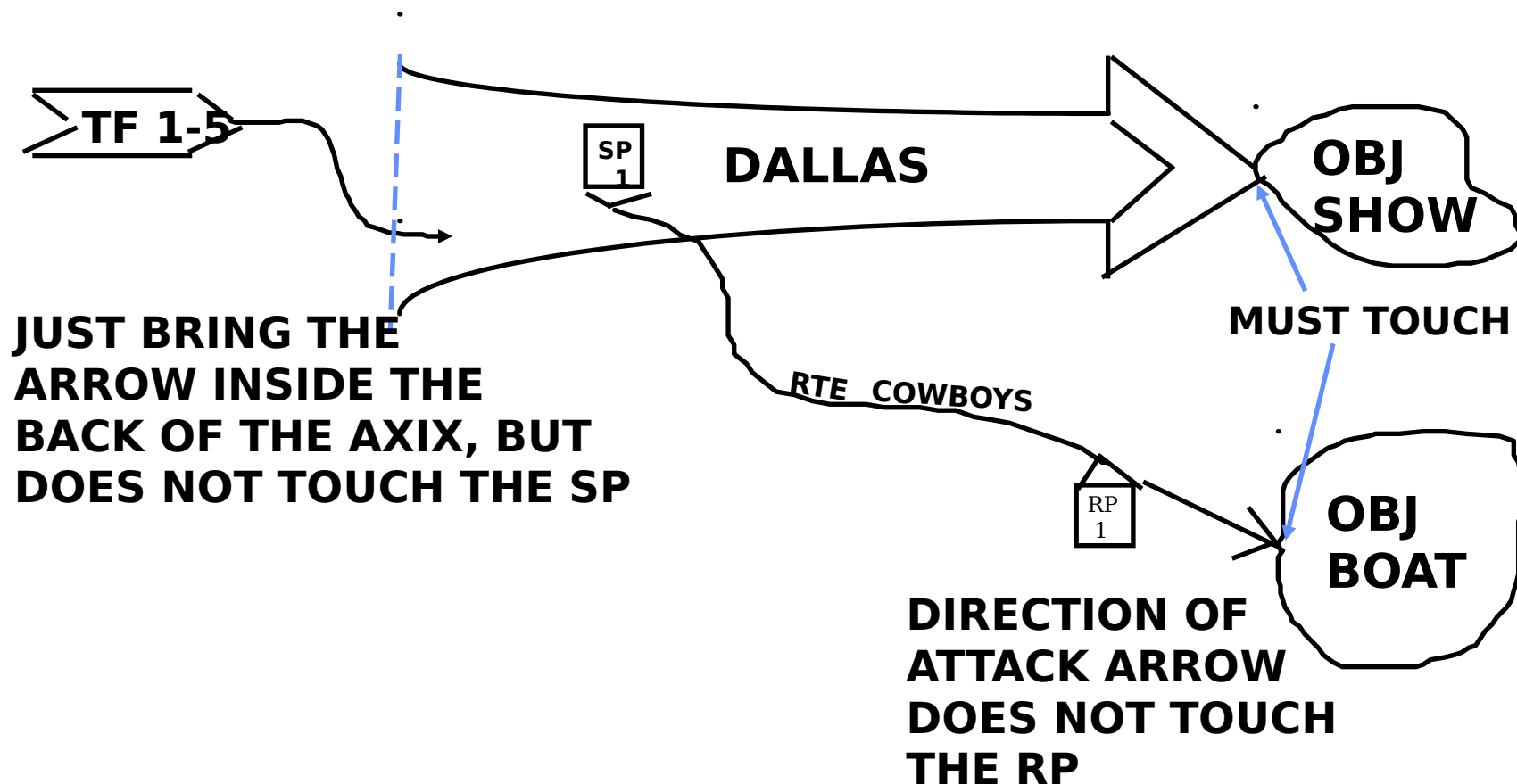
BOUNDARIES





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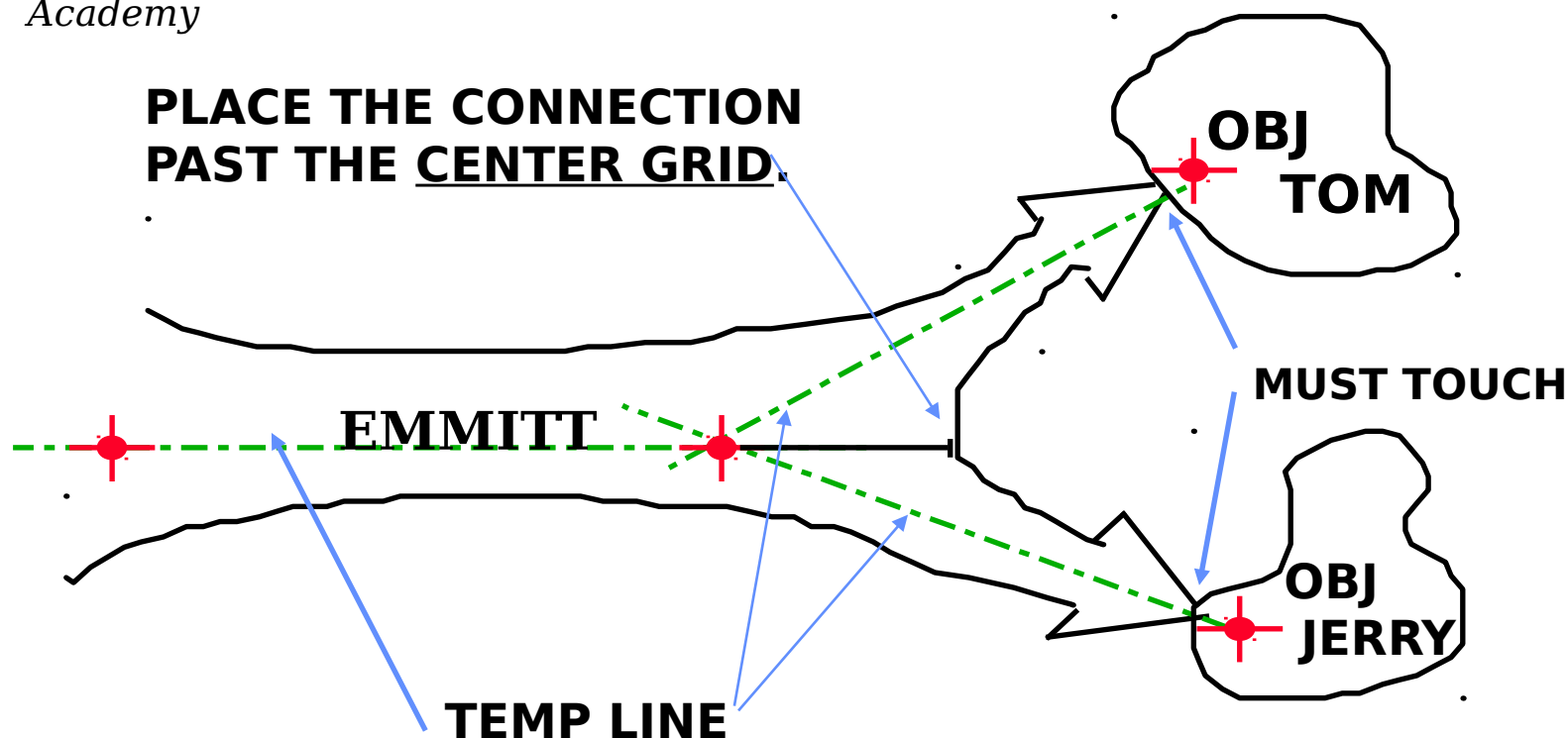
MOVEMENTS





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MOVEMENT (DOUBLE AXIS)



**TO CONSTRUCT A DOUBLE HEADED AXIS,
DRAW A TEMPORARY LINE TO ORIENT BOTH
AXIS THEN DRAW THEM.**





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FSCL, RFL, AND CFL

FSCL 52D ID (M)(B)
EFF 070700ZOCT97

FSCL 52D ID
EFF 070700Z -
080700ZOCT97

**FSCL, RFL, AND CFL WILL HAVE ESTABLISHING HQ
AND EFFECTIVE TIME. TIME CAN BE EITHER A SING
OR DOUBLE ENTRY (WITH START AND STOP)**

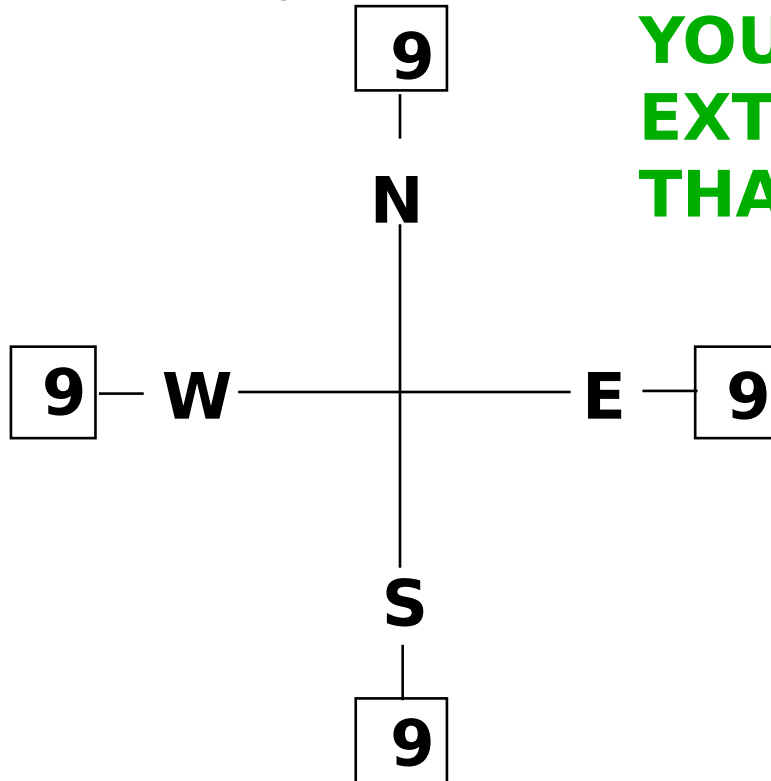




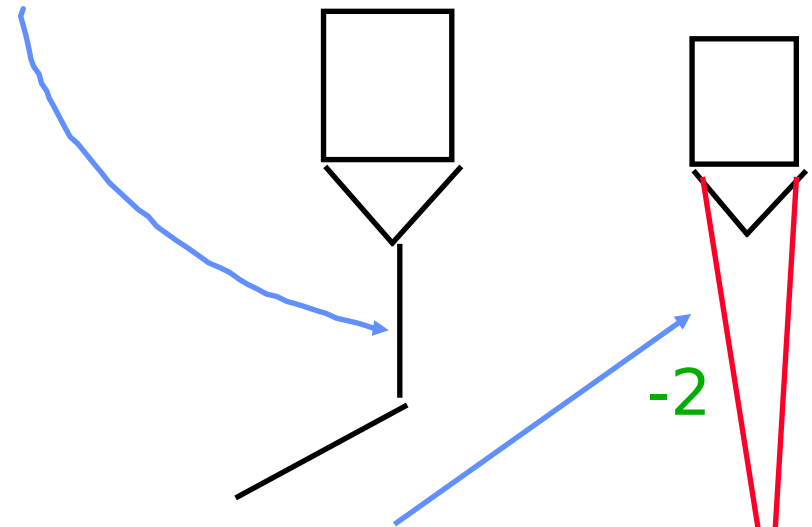
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POINTS

**YOU CAN STAFF AND
EXTEND POINTS OTHER
THAN SP'S OR RP'S**



**YOU CAN NOT EXTEND
(BEND) THIS STAFF.**



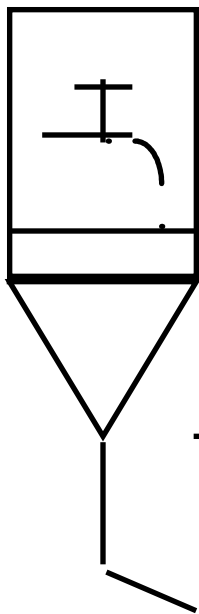
**DO NOT OVER EXTEND
THE TRIANGLE ON THIS
SYMBOL**





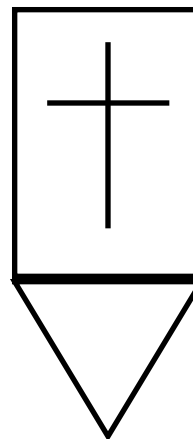
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POINTS (CONT)



2 BDE

**WATER
DISTRIBUTION
POINT**



**2 BDE
GRREG**

**GRAVES
REGISTRATION
POINT**

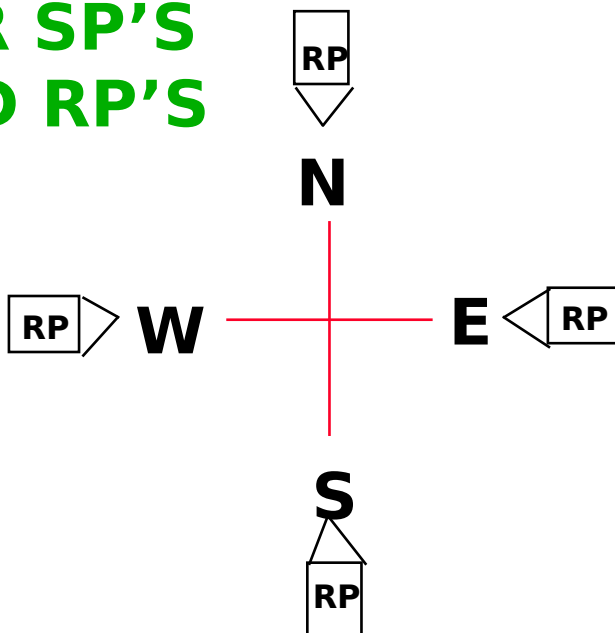




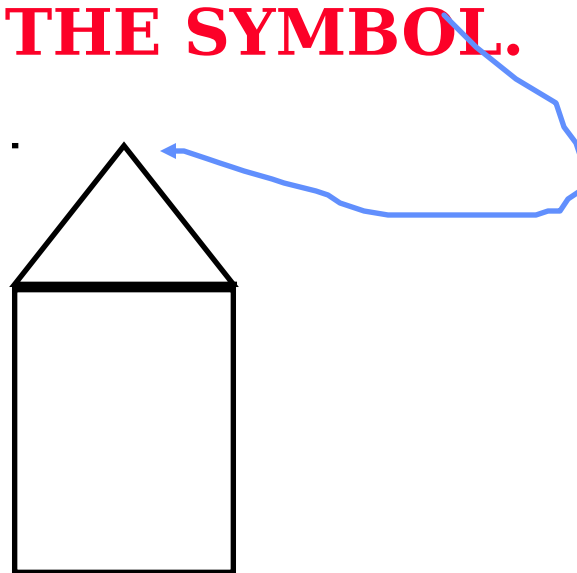
RELEASE/START POINTS

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**FOR SP'S
AND RP'S**



**REMEMBER: THE ACTUAL
LOCATION OF THE POINT
IS THE TIP OF THE
TRIANGLE AT THE BASE
OF THE SYMBOL.**

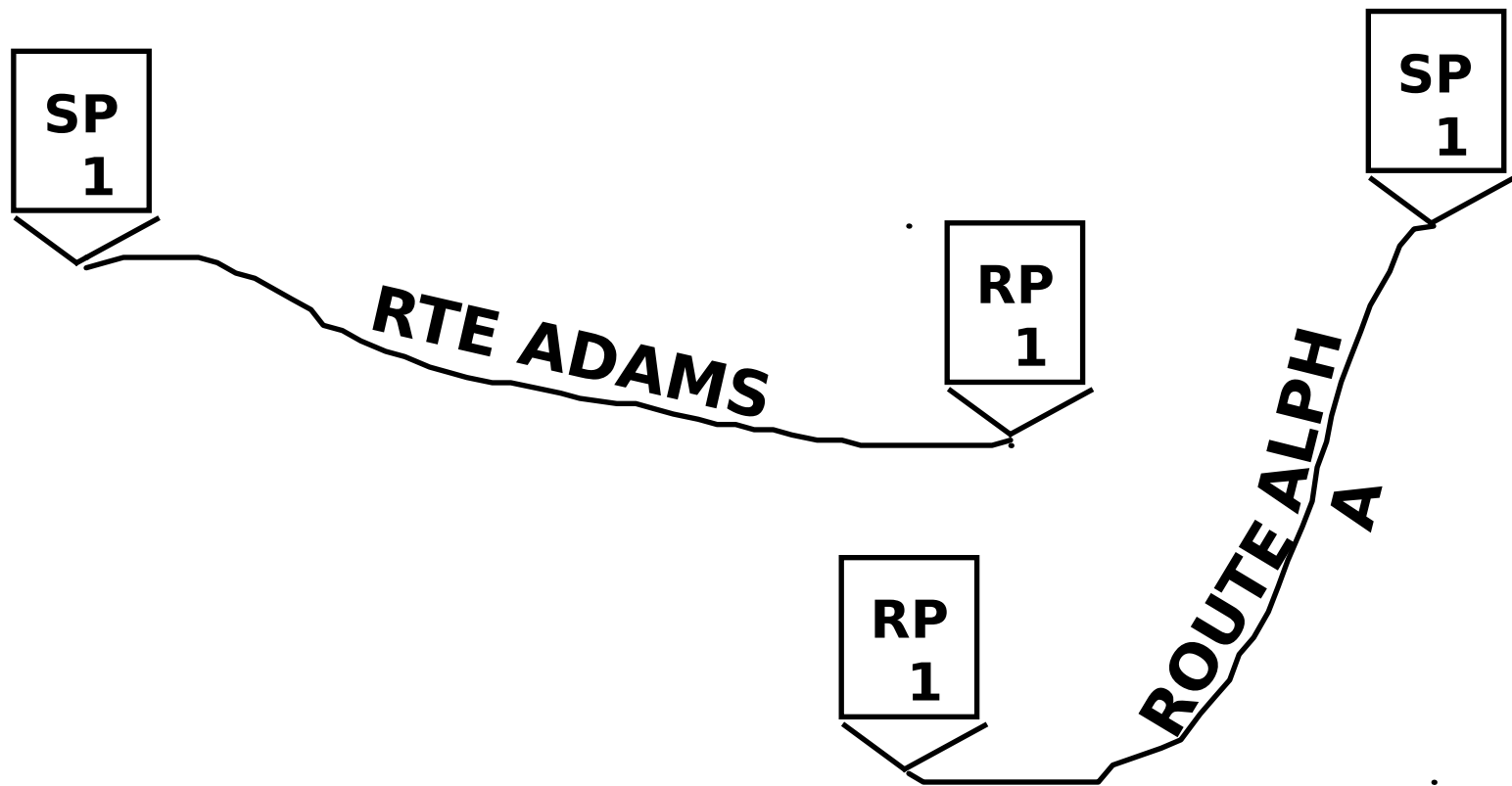




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GENERAL ROUTES

ROUTE LABELS MAY TAKE TWO FORMS

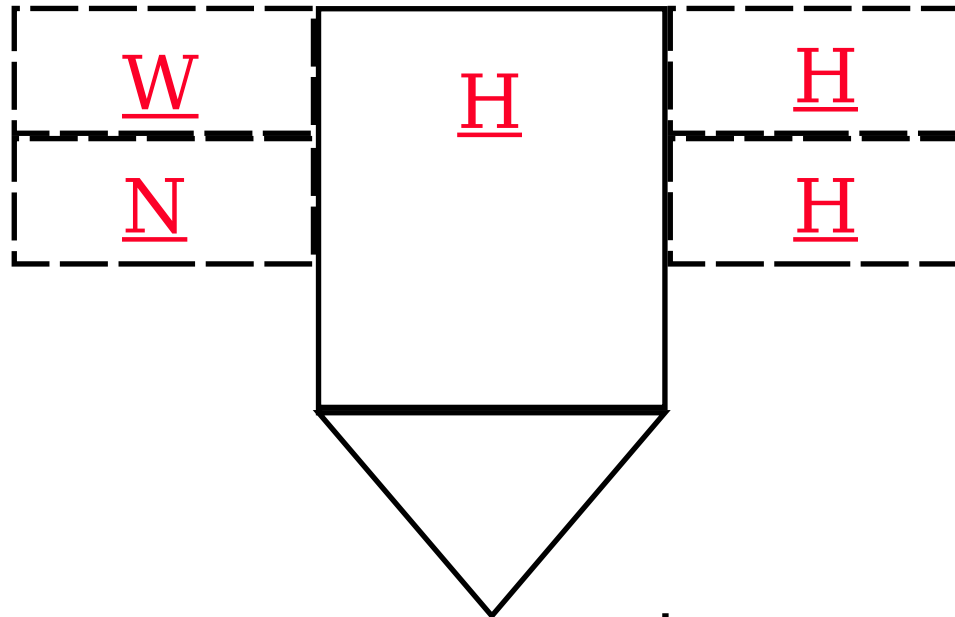




WORKBOOK ANSWER PAGE 3

United States Army Sergeants Major Academy

Identify the fields for a point.



What is the reference page for the above information? [page 3-4](#)



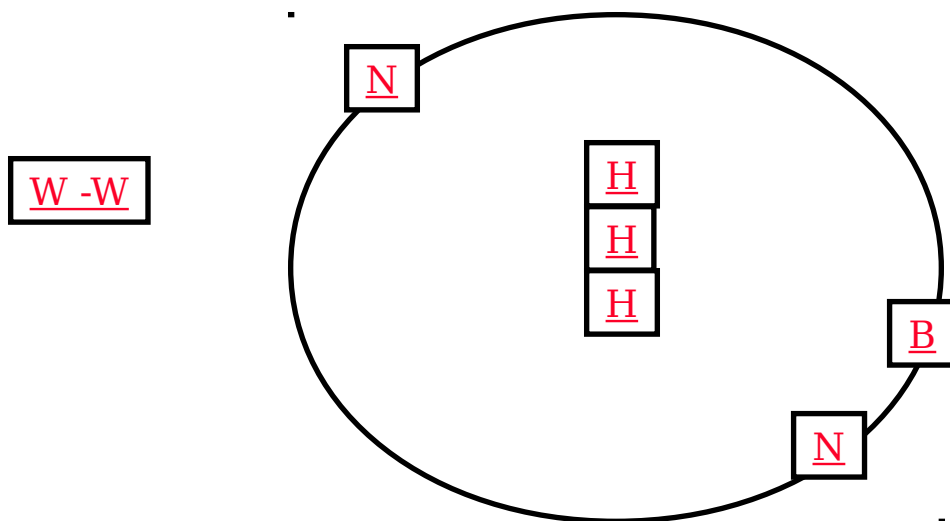


WORKBOOK ANSWER PAGE 4

United States Army Sergeants Major

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List the reference page and identify the fields for an **Area**.



Identify the required alphanumeric characters for field Whiskey, (DTG).

D D H H M M S S Z M O N Y Y

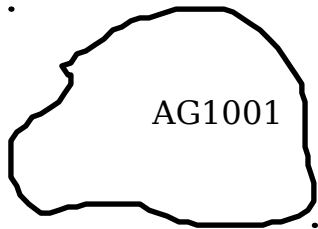




WORKBOOK ANSWER PAGE 5

United States Army Sargeants Major
Academy

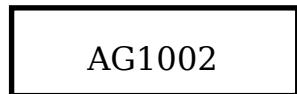
Identify the following “Fire and Maneuver”
and “Fire Support” symbology and reference
page for each symbol.



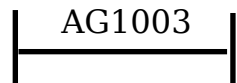
AREA TARGET
page 3-22



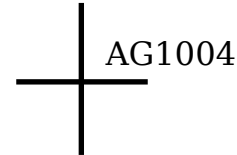
BOMB AREA
page 3-22



RECTANGULAR TARGET
page 3-24



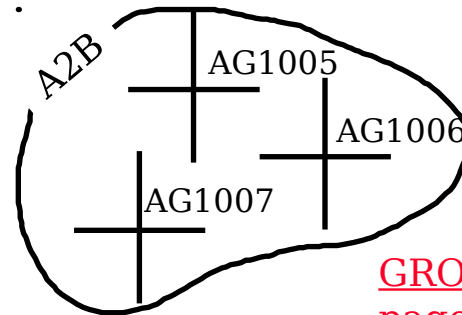
LINEAR TARGET
page 3-23



TARGET
page 3-24

FSCL X (US) CORPS
EFF 090900Z DEC 99

FSCL
page 3-21



GROUP OF TARGETS
page 3-24





WORKBOOK ANSWER PAGE 7

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Label each boundary in accordance with the provided information. For this exercise, place the first unit to the north and the second unit to the south, consider the top of the page as north.

1st BDE (M) Rear Boundary between 1st BDE (M) and 3d Inf Div (M) ———
1 BDE (M)
3 ID (M)

Lateral Boundary between 10th Corps (US) and 1st Armored Div (UK) X X X ———
X (US) CORPS
1 AD (UK)

Lateral Boundary between 52d Inf Div (M) and 54th Inf Div (M) ———
52 ID (M)
54 ID

B Company Rear Boundary between B Company and TF 1-79 (M) | ———
B CO

Lateral Boundary between Company Team F and Company Team B ———
TF 1-79 (M) TM F
TM B

TF 1-4 Armor Rear Boundary between 3d BDE Armor and TF 1-4 Armor | ———
3 BDE (AR)
TF 1-4 (AR)



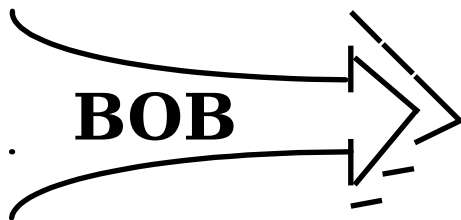


WORKBOOK ANSWER PAGE 8

United States Army Sargeants Major

Academy

Identify the following symbols and the reference page for each.



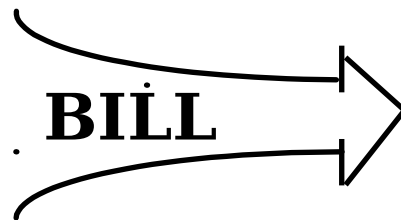
AXIS OF ADVANCE (FEINT)
SUPPORTING ATK

page 3-7
page 3-15

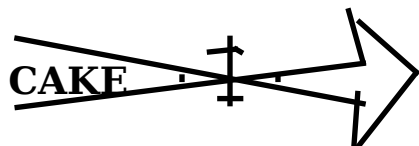


AXIS OF MAIN ATTACK

page 3-15

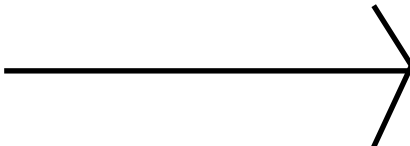


AXIS OF



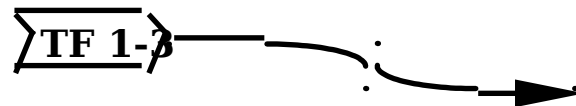
AXIS OF ADVANCE
FOLLOW AND
FRIENDLY ATK HELO
SUPPORT

page 3-15
page C-9



FRIENDLY DIRECTION
OF SUPPORTING ATK

page 3-16





WORKBOOK ANSWER PAGE 9

United States Army Sargeants Major
Academy

Identify the following symbols and the reference page for each.



POINT OF INTEREST
PAGE 3-20



COORDINATING POINT
PAGE 3-25



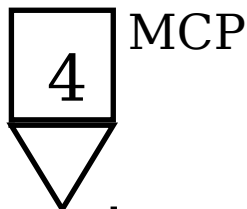
DECISION POINT
PAGE 3-25



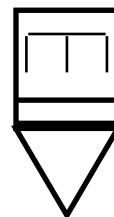
CONTACT POINT
PAGE 3-25



RELEASE POINT
PAGE 3-26



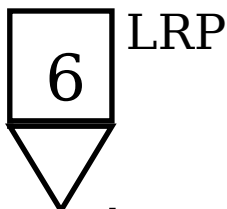
MAINT COL POINT
PAGE 3-38



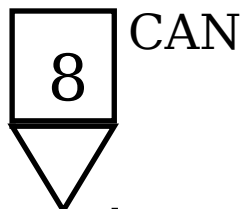
SPLY POINT CLASS IV
PAGE 3-39



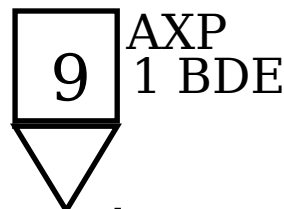
SPLY POINT CLASS V
PAGE 3-39



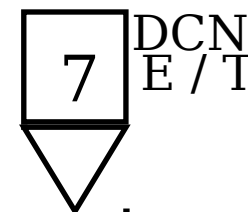
LOG REL POINT
SITE /POINT
PAGE 3-38
(EQUIP/TPDS)



CANNIBALIZATION POINT
PAGE 3-37



AMB EXCHANGE POINT
PAGE 3-37



DECON





WORKBOOK ANSWER PAGE 10

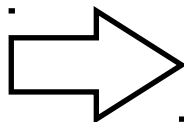
United States Army Sargeants Major
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Identify the following CSS symbology and reference page using Chapter 3:



ASP

AMMUNITION SUPPLY PT
PAGE 3-37



MOVING CONVOY
PAGE 3-37



ATP

AMMUNITION TRANF PT
PAGE 3-37



MAIN SUPPLY ROUTE
PAGE 3-40



MAIN SPLY RTE (ONE-WAY TRAFFIC)
PAGE 3-40



CCP

CASUALTY COLL PT
PAGE 3-37



SUPPLY POINT (CLASS VIII)
PAGE 3-40



START POINT FIVE
PAGE 3-26



SUPPLY POINT (GENERAL)
PAGE 3-39





WORKBOOK ANSWER PAGE 11

United States Army Sergeants Major

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Identify the following Mobility and Survivability Symbology and the reference page as identifi

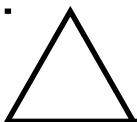


ANTITANK OBSTACLE
FIXED and PREFABRICATED
PAGE 3-27



ERP

ENGINEER REGULATING PT
PAGE 3-28



ANTITANK OBSTACLE
MOVABLE and PREFABRICATED
PAGE 3-27



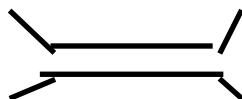
ANTITANK MINEFIELD
PAGES 3-29 and 3-30



BOOBY TRAP
PAGE 3-27



TRIPLE STRAND CONCERTINA
PAGE 3-32



BRIDGE or GAP
PAGE 3-28



WIRE OBSTACLE (UNSPECIFIED)
PAGE 3-32

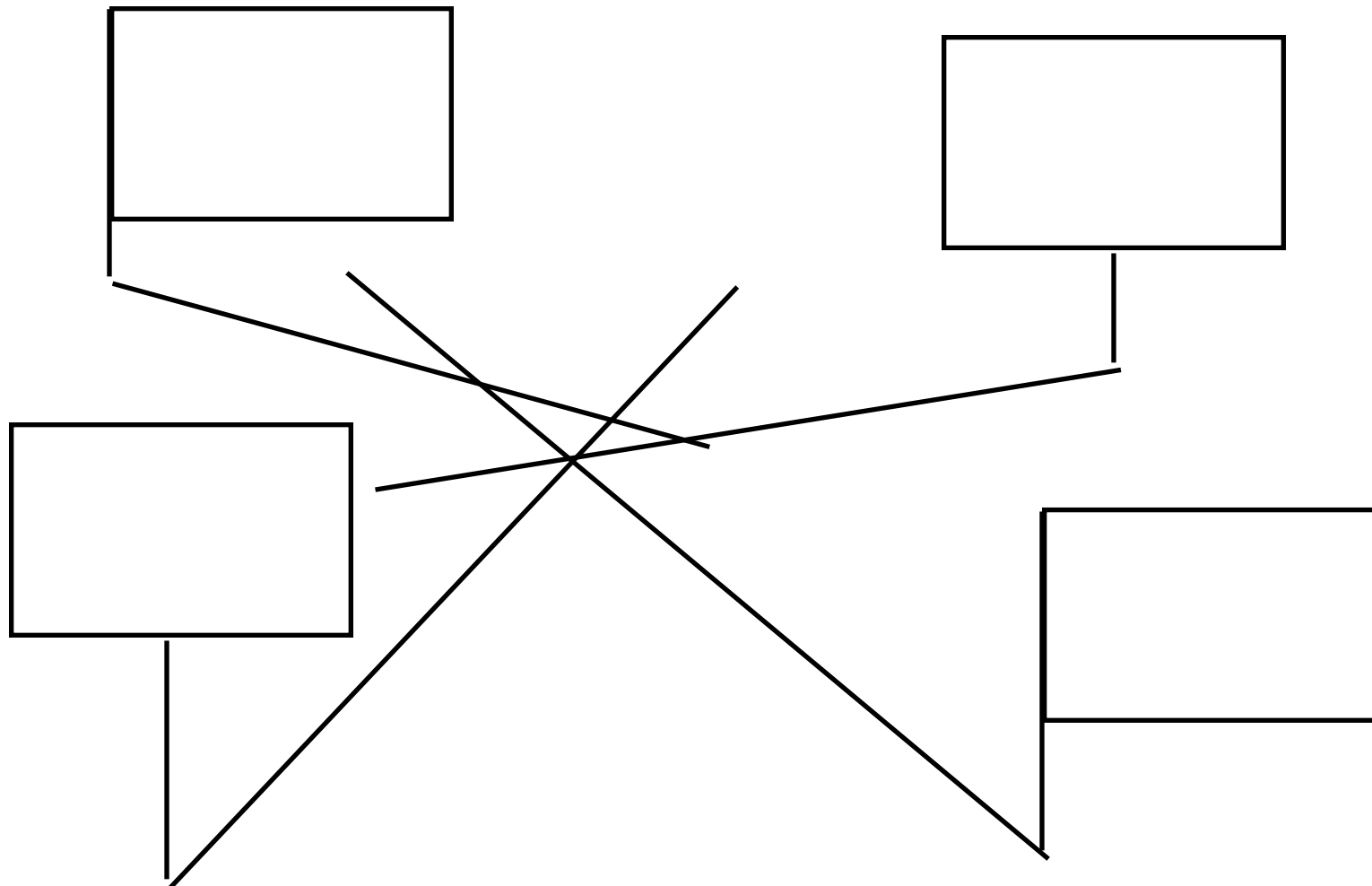




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STAFFS AND EXTENSIONS

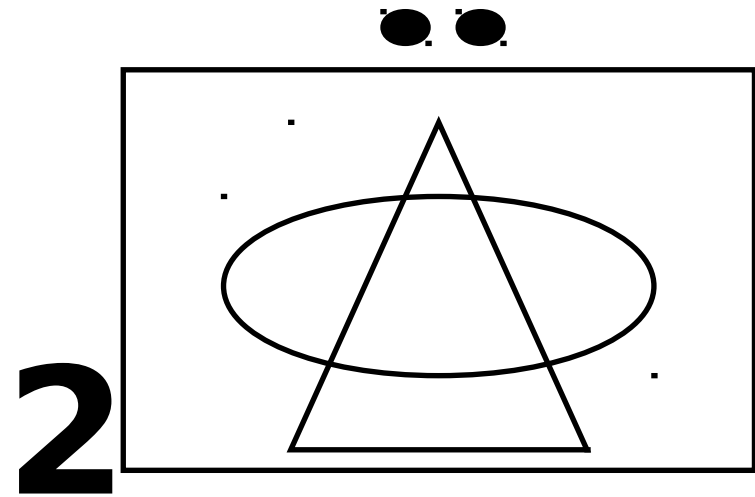
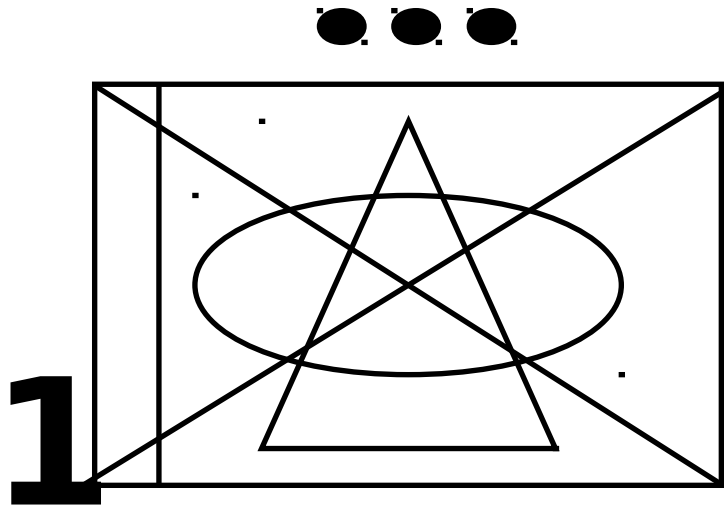
WHAT'S WRONG WITH THIS PICTURE





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LP/OP



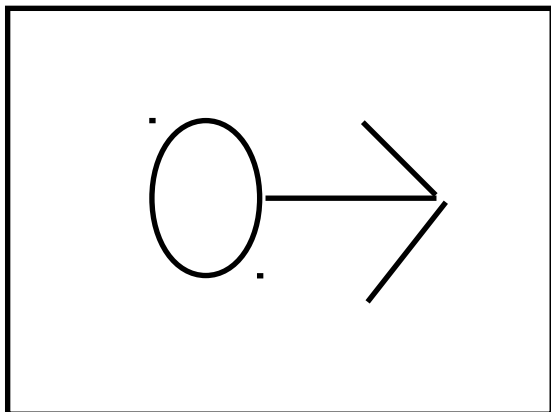
LP/OP field Alpha takes on the same designation as the parent unit with a triangle placed on top of that designation.



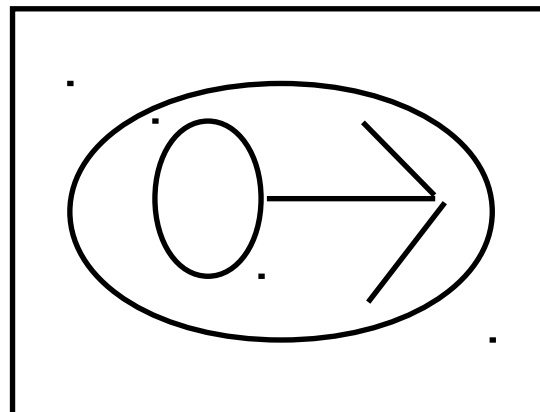


United States Army Sergeants Major
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MORTARS



**MORTAR OTHER
TRACKED**



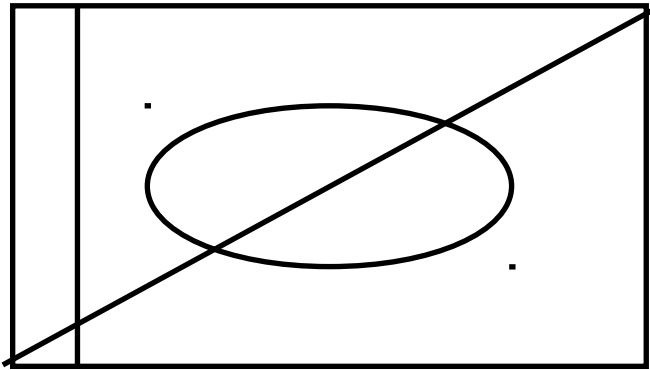
**MORTAR
THAN TRACKED**



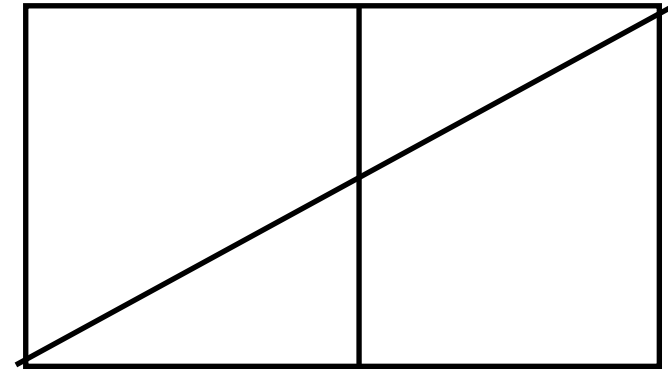


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SCOUTS



**SCOUT W / IFV
SCOUT**



MOTORIZED





WORKBOOK ANSWER PAGE 12

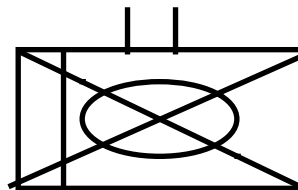
United States Army Sergeants Major Academy

Use the following colors along with pen types to complete this workbook and your overl

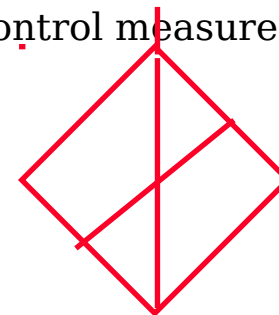
Green: All obstacles, friendly, enemy, neutral, and factional plus neutral unit symbols.
(fine & super fine)



Black: All friendly units and graphic control measures.
(medium, fine, & super fine)



Red: Enemy symbols and enemy graphic control measures.
(fine & super fine)



What page refers to the use of these colors? page 3-1





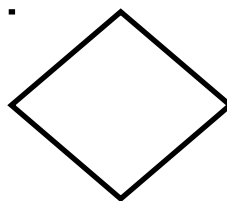
WORKBOOK ANSWER PAGE 13

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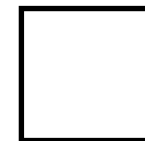
These are the three basic symbols used in graphics.



FRIENDLY GROUND UNITS
(RECTANGLE)



ENEMY UNITS (DIAMOND)



NEUTRAL (SQUARE)

What is the reference page 4-2?

NOTE:

FM 101-5-1 SHOWS SYMBOLOGY FOR SHIPS AND AIRCRAFT, HOWEVER THESE SYMBOLS WILL NOT BE ADDRESSED DURING THIS COURSE.





WORKBOOK ANSWER PAGE 14

United States Army Sargeants Major

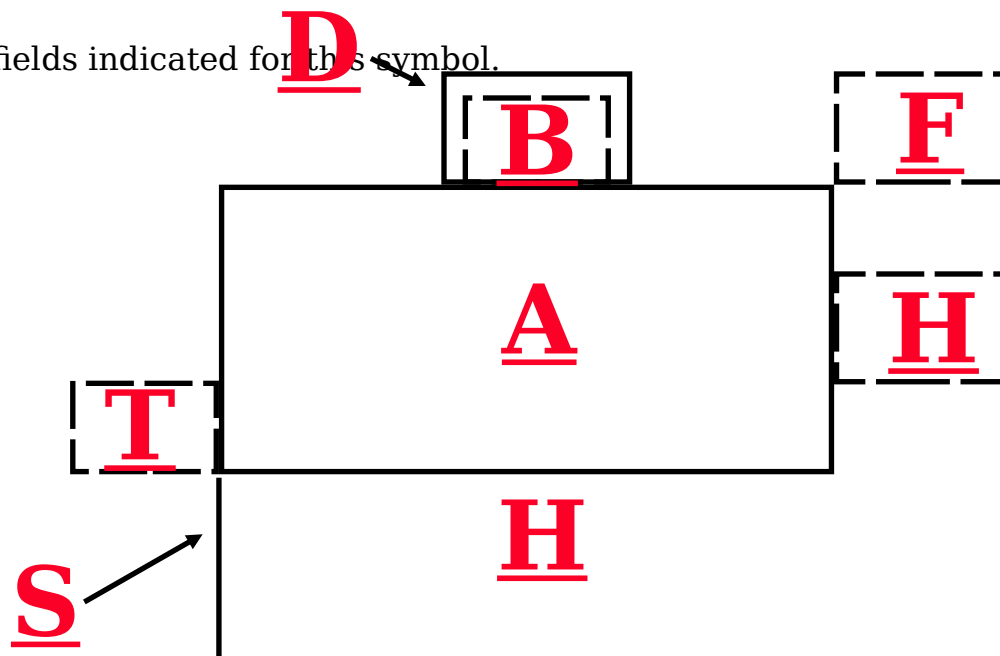
Academy

The required **Mandatory** fields for any specific symbol are those fields needed to correctly represent any given symbol.

For most unit symbols it will be necessary to fill in fields Alpha, Bravo, Tango, and possibly Delta, Foxtrot, Hotel and Sierra.

Notice that with field Alpha there may be several modifiers required to correctly replicate a unit. IE: airborne, gun system equipped, or bicycle equipped.

Identify each of the fields indicated for this symbol.



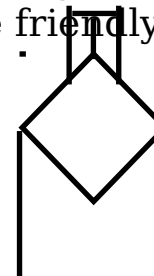
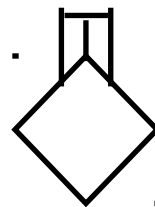
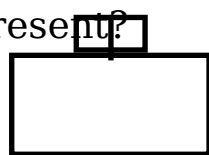
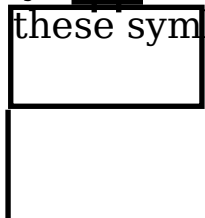


WORKBOOK ANSWER PAGE 15

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Field **DELTA**, placed over the size indicator field denotes a temporary grouping of units. We use this special size indicator to depict a **TASK FORCE** or **COMPANY TEAM**. If you are drawing a Headquarters element, what field must you use? **SIERRA** You can find this field on the friendly and enemy types of symbols.

What do these symbols represent?

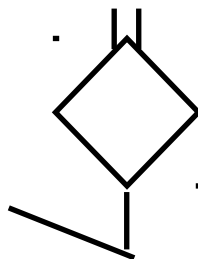
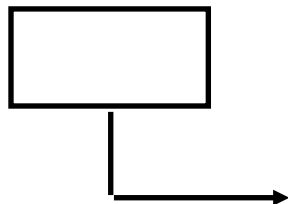


TASK FORCE HEADQUARTERS
ENEMY COMPANY
HEADQUARTERS

COMPANY TEAM

ENEMY COMPANY TEAM

TEAM



UNIT SYMBOL USING FIELD QUEBEC
PROJECTED
FOR DIRECTION OF MOVEMENT
INDICATING
INDICATES MOVING OR WILL MOVE
PROPOSED

ENEMY BATTALION

A FUTURE OR

LOCATION

ON-ORDER OR

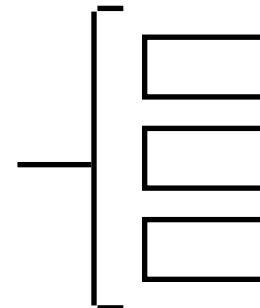
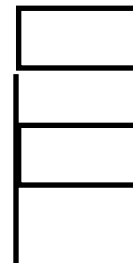
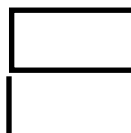
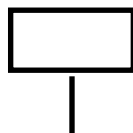




WORKBOOK ANSWER PAGE 16

United States Army Sargeants Major
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What do the following symbols represent and what is the reference page in FM 101-5-1? PAGE 4-7



Answers: BASIC SYMBOL HEADQUARTERS CO-LOCATED
CO- LOCATED NON-HQS UNIT UNIT HQS UNITS
NON-HQS UNITS

We use X's to represent the size of Brigade thru REGION Units.

Annotate below which unit size is depicted:

SYMBOL

X
XX
XXX
XXXX
XXXXX
XXXXXXX

UNIT SIZE

BRIGADE
DIVISION
CORPS
ARMY
ARMY GROUP/FRONT
REGION












WORKBOOK ANSWER PAGE 17

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We use dots to show the size of units below Company level. These sizes are:

-  Represents a **TEAM / CREW**
-  Represents a **SQUAD**
-  Represents a **SECTION**
-  Represents a **PLATOON/DET**

We use vertical lines to represent the size of units from Company to Regimental/Group level. T

-  Represents a **COMPANY / BATTERY / TROOP**
-  Represents a **BATTALION / SQUADRON**
-  Represents a **REGIMENT / GROUP**

What is the reference page in FM 101-5-1? **PAGE 4-5**

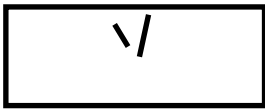




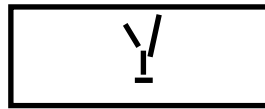
WORKBOOK ANSWER PAGE 18

United States Army Sargeants Major Academy

Now that you know how to show the size, and some of the role indicators, it's time to work on some of the over 1000 possible symbols. We will only learn a few at a time. Start on page 4-8 (FM 101-5-1) and identify these modifiers to field Alpha.



AIR ASSAULT



AIR ASSAULT W/ ORGANIC LIFT



AIRBORNE



**MECH OR ARMOR
(TRACKED)**



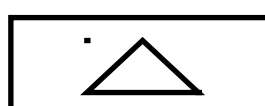
BICYCLE-EQUIPPED



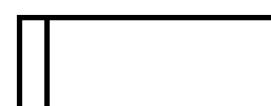
RECONNAISS



RADAR



**OBSERVATION OR
LISTENING POST**



**GUN SYSTEM
(VULCAN, IFV, Z)**



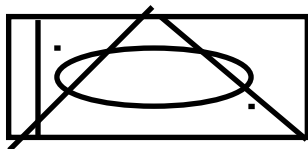


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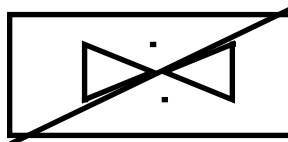
United States Army Sargeants Major

Academy.

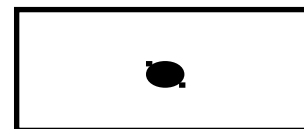
Name these units:



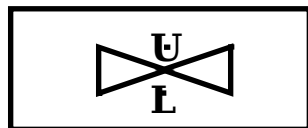
ANTIARMOR /
FIGHTING VEHICLE



AIR CAVALRY



FIELD ARTIL
(BASIC) (TOW



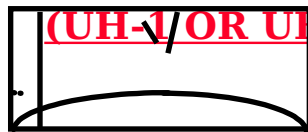
LIFT HELICOPTER
ENGINEER
BASIC OR LIGHT
MECHANIZED



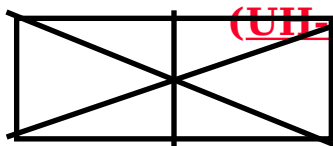
LIFT HELICOPTER



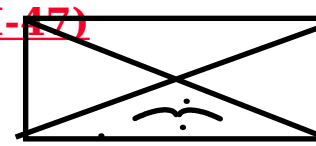
COMBAT



AIR DEFENSE ARTILLERY
INFANTRY
VULCAN EQUIPPED
TOWED



MOTORIZED INFANTRY



AIRBORNE

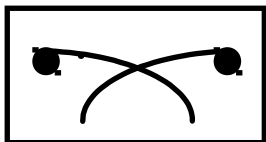




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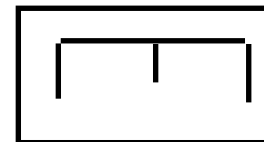
Name these Combat Support Units.



CHEMICAL BASIC
ENGINEER BASIC
SYMBOL
SYMBOL



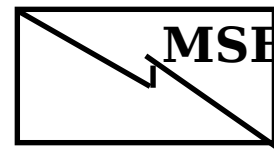
MI BASIC SYMBOL



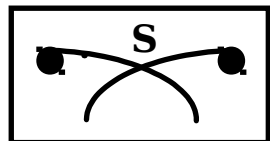
ELECTRONIC WARFARE
SUBSCRIBER
BASIC SYMBOL



MILITARY POLICE

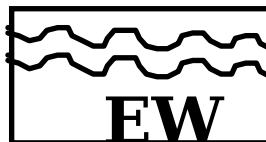


MULTIPLE



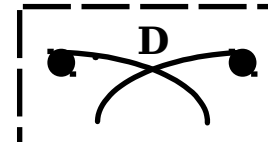
SMOKE UNIT
DECONTAMINATION

(PROPOSED



ELECTRONIC WARFARE

JAMMING ELEMENT



ELEMENT

UNIT





WORKBOOK ANSWER PAGE 21

United States Army Sargeants Major
Academy

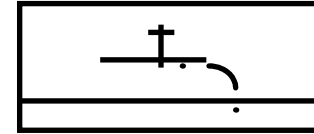
Name these Combat Service Support Units.



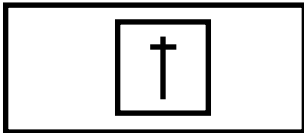
SUPPLY



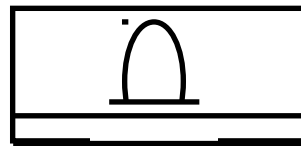
SALVAGE



WATER DISTRIBUTION



MORTUARY AFFAIRS



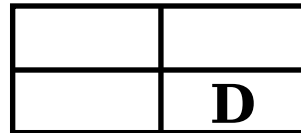
CLASS V SUPPLY



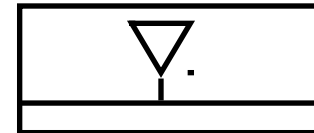
DIVISION SUPPORT
COMMAND



FORWARD SUPPORT
CLASS III SUPPLY
BATTALION



DENTAL UNIT



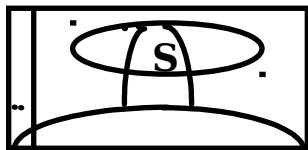


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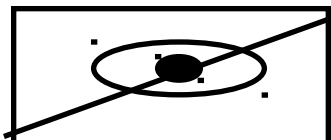
United States Army Sargeants Major

Academy

Identify these symbols.



ADA (BRADLEY STINGER)
ARTILLERY
FIGHTING VEHICLE
MLRS OR ATACMS



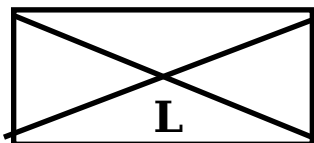
FA COLT TRACKED



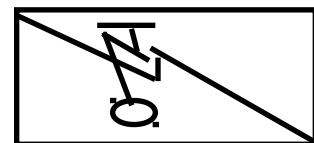
FIELD



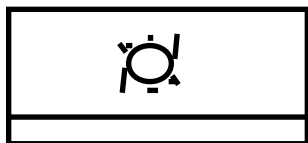
CLASS VIII SUPPLY
RELAY STATION



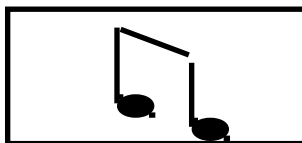
LIGHT INFANTRY



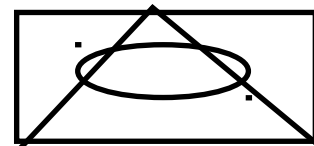
RADIO



CLASS IX SUPPLY



BAND



ANTIARMOR (MECH)

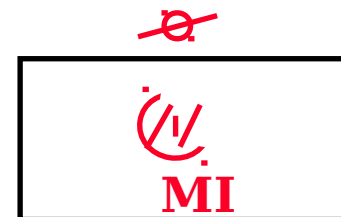
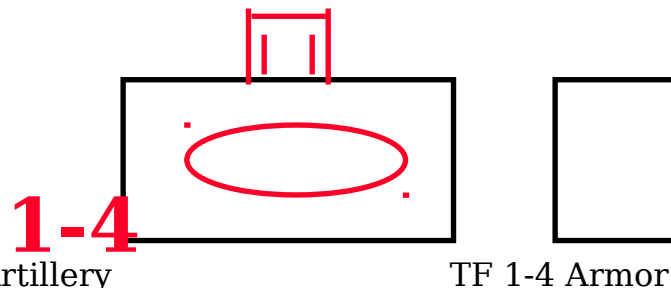
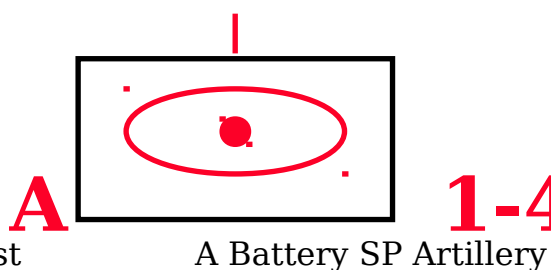
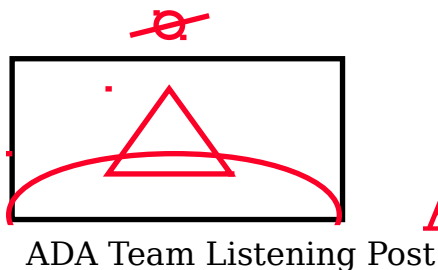
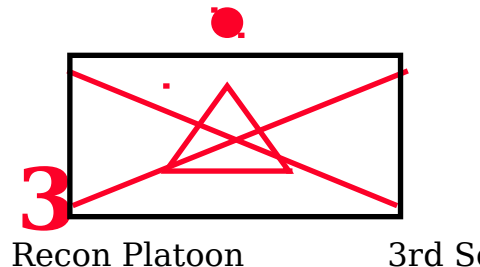
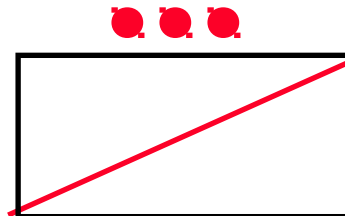
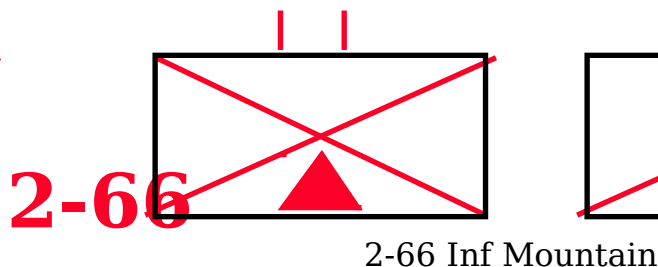
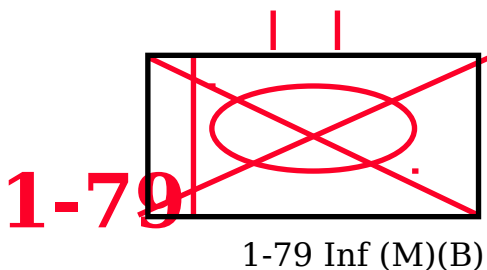
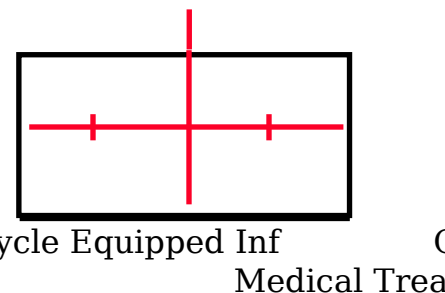
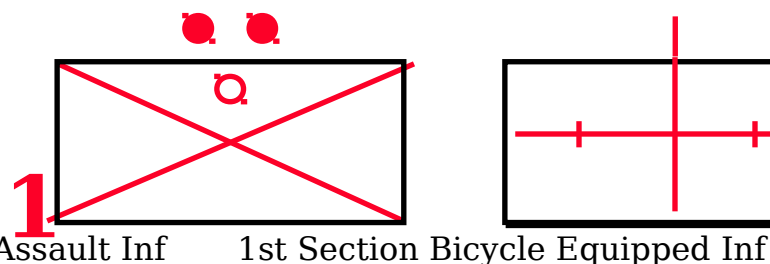
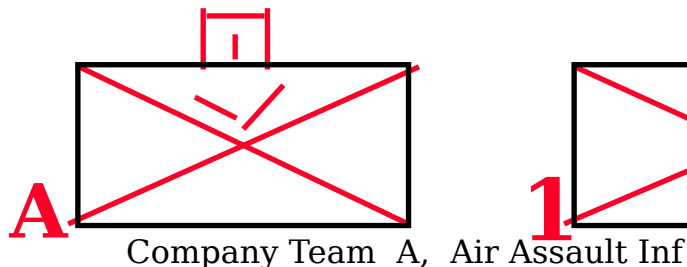
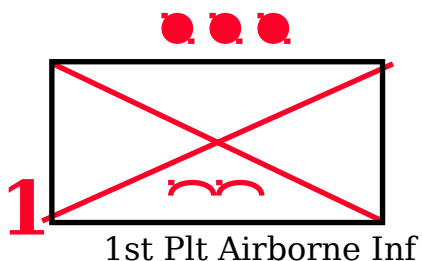




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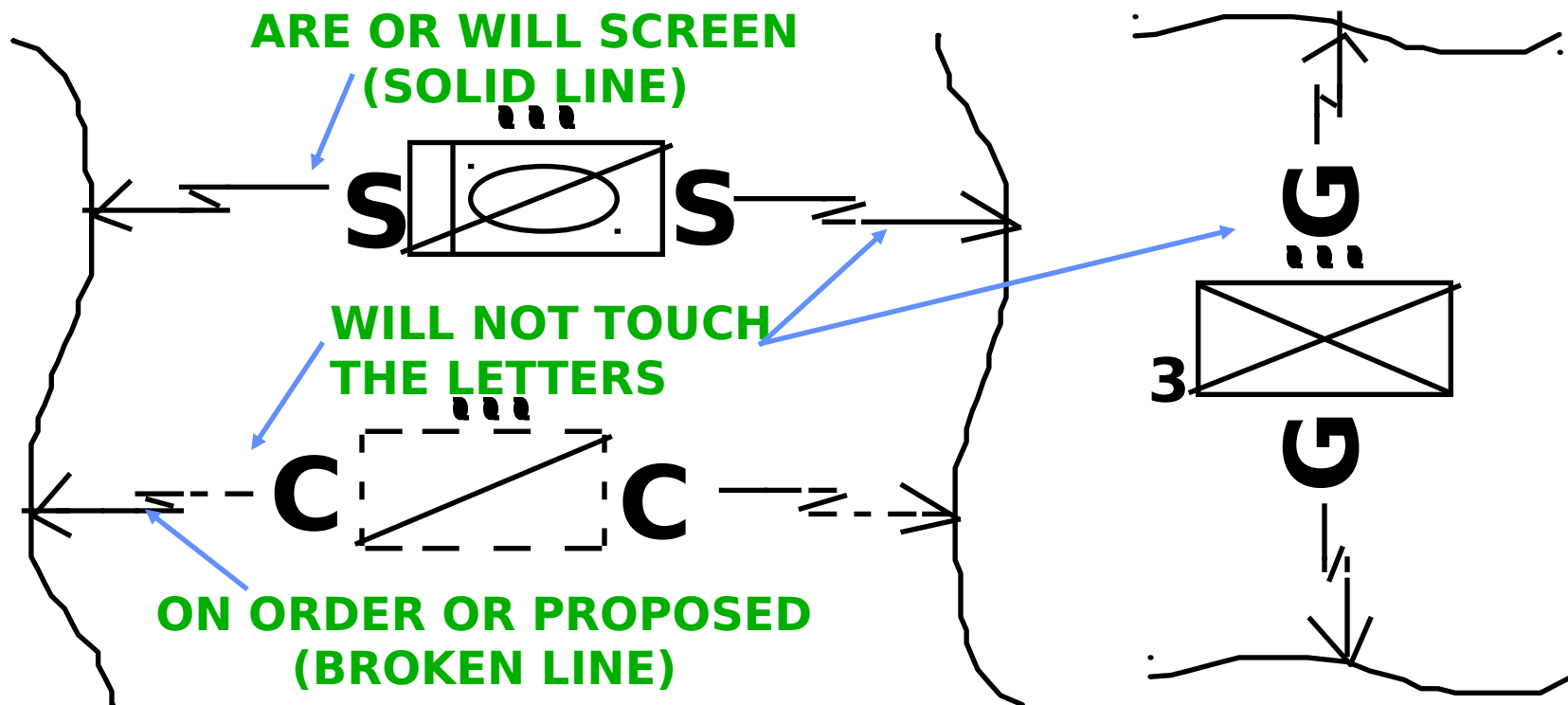
Draw the correct field Alpha, Bravo, Delta, and Tango entries for the symbols below:





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SECURITY



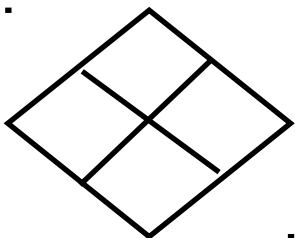


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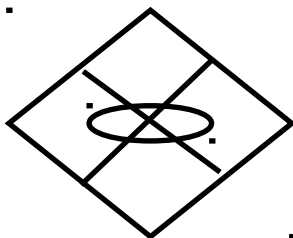
United States Army Sargeants Major

Academy

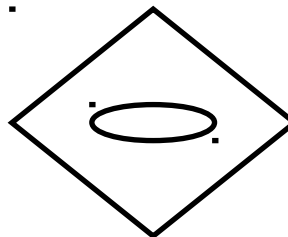
Identify the following symbols from Chapter 4 and Appendix B.



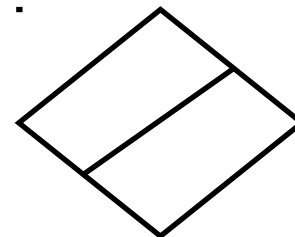
ENEMY INFANTRY
CAV / RECON



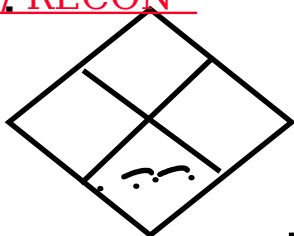
ENEMY MECH INF



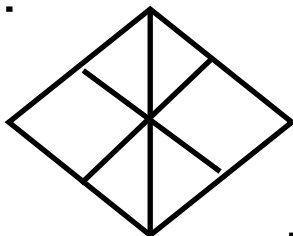
ENEMY ARMOR



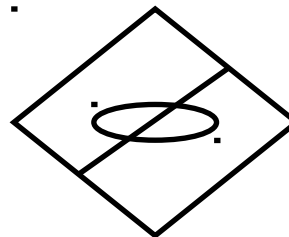
ENEMY



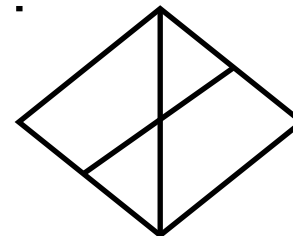
ENEMY AIRBORNE INF



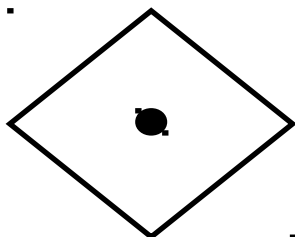
ENEMY MOTORIZED INF



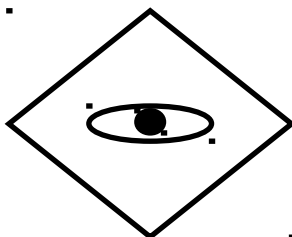
ENEMY ARMORED
CAV / SCOUT



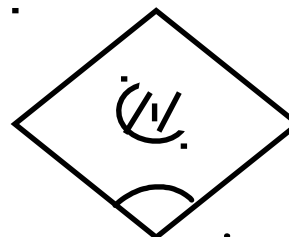
MOTORIZED



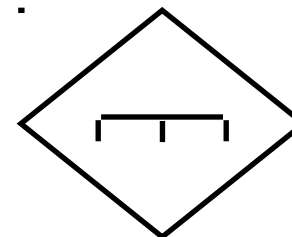
ENEMY ARTILLERY



ENEMY SP ARTILLERY



ENEMY ADA RADAR



ENEMY

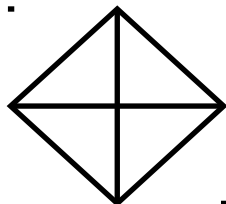




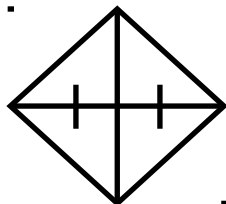
WORKBOOK ANSWER PAGE 25

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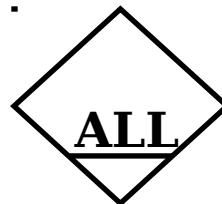
Identify the following symbols from Appendix B and D :



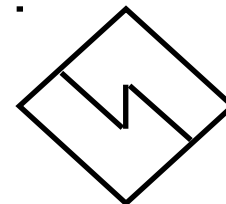
ENEMY MEDICAL



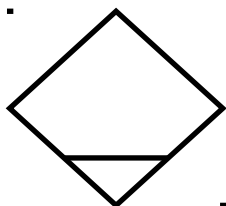
ENEMY MEDICAL
TREATMENT FACILITY



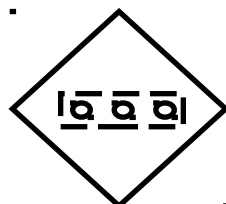
ENEMY SUPPLY
ELEMENT
(ALL CLASSES)



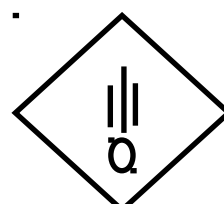
ENEMY S
ELE



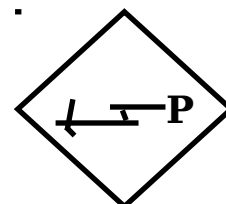
ENEMY SUPPLY CASHE



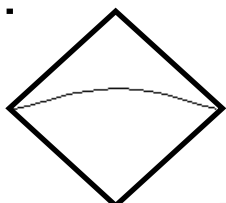
ENEMY MINE LAYING
(IN PROGRESS)



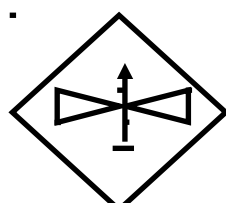
ENEMY ARTILLERY
FIRE



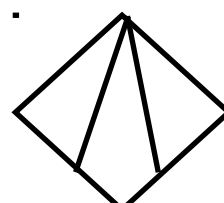
ENEMY PATR



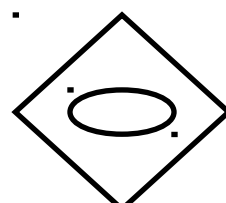
ENEMY ADA



ENEMY ATTACK HELO
(ON GROUND)



ENEMY ANTITANK



ENEMY AF





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KEYS TO SUCCESS

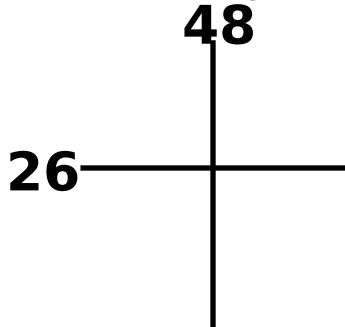
- 1. READ THE SCENARIO FIRST**
- 2. DEVELOP A PLAN (PLOTING SEQUENCE)**
- 3. ATTENTION TO DETAIL**
- 4. COMPLETE EACH REQUIREMENT BEFORE MOVING TO THE NEXT ONE**
- 5. BE NEAT**
- 6. PACE YOURSELF AND REMAIN CALM**





REGISTERING AND MARGINAL INF

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- **TITLE AND OBJECTIVE**
- **TIME AND DATE**
- **MAP REFERENCE**
- **AUTHOR**
- **LEGEND**
- **SECURITY CLASSIFICATION**
- **ADDITIONAL INFORMATION**

